

**PROCEEDINGS OF THE BROWN COUNTY
PLANNING, DEVELOPMENT & TRANSPORTATION COMMITTEE**

Pursuant to Section 19.84 Wis. Stats., a regular meeting of the **Brown County Planning, Development & Transportation Committee** was held on Monday, February 22, 2010 in Room 161 of the AG & Extension Center, 1150 Bellevue Street, Green Bay, WI

Present: Bernie Erickson, Mike Fleck, Dave Kaster.
Excused: Norb Dantine, Dan Haefs.
Also Present: Bill Bosiacki, Matt Heyroth, Tom Hinz, Judy Knudsen, Chuck Larscheid, Brian Lamers, Chuck Lamine, Tom Miller, Jayme Sellen, Judy Wolniakowski.
Della Clabots, Gerry Clabots, Christopher Kocian, Marcia Kocian, Barb Louis, Fischer Louis, Jackson Louis, and Other Interested Parties.

- I. **Call Meeting to Order:**
The meeting called to order by Chairman Bernie Erickson at 6:30 p.m.
- II. **Approve/Modify Agenda:**

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve. MOTION APPROVED UNANIMOUSLY.
- III. **Approve/Modify Minutes of Regular Meeting of January 25, 2010:**

Motion made by Supervisor Kaster and seconded by Supervisor Fleck to approve. MOTION APPROVED UNANIMOUSLY.
1. **Review Minutes of:**
 - a. Harbor Commission (January 11, 2010).
 - b. Lower Fox River and Green Bay Shoreline Waterfront Redevelopment Steering Committee meeting (November 11, 2009).
 - c. Planning Commission Board of Directors (December 2, 2009).
 - d. Planning Commission Board of Directors Chapter 21 Subdivisions Ordinance Revision Subcommittee (July 30, 2009).
 - e. Solid Waster Board (January 18, 2010).
Motion made by Supervisor Fleck and seconded by Supervisor Kaster to suspend the rules and take Items Nos. 1a through 1e together. MOTION APPROVED UNANIMOUSLY.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve Items Nos. 1a through 1e. MOTION APPROVED UNANIMOUSLY.

Carryovers

2. **Planning, Development & Transportation Division 2009 to 2010 Carryover Funds:**

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve. MOTION APPROVED UNANIMOUSLY.

Airport:

3. Director's Report:

Tom Miller, Airport Director, reported that two airlines will begin service to Green Bay: Continental will begin flights between Green Bay and Cleveland, Ohio, on May 2, 2010; and Frontier will begin flying between Green Bay and Denver, Colorado, in April, 2010. (See attachments.)

Mr. Miller said Continental had serviced Green Bay previously and discontinued flights due to the cost of jet fuel. He opined that service to Cleveland and then to the east could be very successful, due to the previous load factor experienced by Continental and the draw-down in the number of seats available out of Green Bay when Delta and Northwest merged.

Regarding the Frontier service, Mr. Miller indicated that this was both good and bad. He continued by saying the timing could have caused Brown County's loss of the Small Community Air Service Development Grant. He added that Frontier has indicated that year-round service could be a possibility and depends upon the success during the spring and summer.

Chair Erickson asked about recent discussions concerning flights to Myrtle Beach, to which Mr. Miller indicated that conversations continue with several carriers.

Concerning the recent food and beverage RFP, Mr. Miller reported that the only proposal received was from the incumbent; and negotiations are continuing for restaurant services during the next 10 years.

Mr. Miller informed those present that passenger traffic is up 6.5 percent compared to January, 2009—almost 26,400 passengers compared to 24,700.

Mr. Miller distributed a handout concerning employees who worked over 12 hours in a 24-hour period (copy attached) due to the 1 storm in January. He added that typically that does not happen unless there is a snow situation.

Mr. Miller reported that construction on the snow removal building resumed today. The project is expected to be completed on October 1, 2010. He added that Jet Air is in the process of building a 24,000 square foot hangar, and the fixed base operation services will probably move to that new building in mid-July. He stated that there will be one additional project this year: The taxi way on the south side of the airport will be repaired under a Federal grant for about \$1 million; and no runway should be closed for any significant time period during that construction. Brown County's share of the grant is about 2.5 percent of the project's costs which is included in the budget.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to receive and place on file. MOTION APPROVED UNANIMOUSLY.

UW-Extension

4. **The New 4-H SET (Science, Engineering, and Technology) Project:**
Judy Knudsen, UW Extension Family Living Education/Dept. Head, introduced Judy Wolniakowski, UW Extension 4-H Youth Development Educator. Ms. Wolniakowski introduced 4-H SET and said the purpose for the new club and new direction is to encourage young people in the area of Science, Engineering, and Technology; because statistics show that the United States is falling dangerously behind other countries in this area. She added that 4-H has traditionally involved kids from rural areas; and this would appeal to urban-area kids as well.

Ms. Wolniakowski stated that grant funds were used to purchase robot kits and hopes to purchase additional sensors next year. She introduced 4-H SET Club members Gerry Clabots, Christopher Kocian, Fischer Louis, and Jackson Louis, who brought robots, explained some of the features, and gave demonstrations for the Committee.

Barb Louis, 2514 Lawrence Drive, DePere, addressed the Committee. She said she was amazed at the trouble-shooting her boys (Fischer and Jackson) have been able to handle without getting frustrated.

Marcia Kocian, 8216 Dickinson Road, Greenleaf, said her son Christopher had been interested in Legos at a young age and is hopeful that this could prove useful.

Della Clabots, 3041 Merganser Lane, Green Bay, stated that this robot project was the only way to get her grandson (Gerry) interested enough in 4-H to sign up. She opined that the persistence and interest in problem-solving was great for any age group.

Ms. Wolniakowski invited the Committee to come to this room on Thursdays, from 6:00 to 8:00 p.m., and watch the kids actually work on the robots.

Motion made by Supervisor Kaster and seconded by Supervisor Fleck to receive and place on file. MOTION APPROVED UNANIMOUSLY.

5. **2009 Annual Report:**
Ms. Knudsen distributed the annual report (copy attached).

Motion made by Supervisor Kaster and seconded by Supervisor Fleck to receive and place on file. MOTION APPROVED UNANIMOUSLY.

6. **Budget Adjustment Request (#10-16): Increase in expenses with offsetting increase in revenue:**

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to receive and place on file. MOTION APPROVED UNANIMOUSLY.

7. **Director's Report:**
Ms. Knudsen gave the Committee the November financial information and reviewed the UW-Extension Programming Efforts (copies attached).

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to receive and place on file. MOTION APPROVED UNANIMOUSLY.

Port & Solid Waste:

8. **Grant Application Review (#10-03): Cat Island Restoration Project:**
Chuck Larscheid, Director of Port & Solid Waste, pointed out that Brown County's portion of these funds would be paid by dredging/tipping fees from the Corps of Engineers.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve. MOTION APPROVED UNANIMOUSLY.

9. **Incineration Update:**

Mr. Larscheid reported that a group is attempting to process waste in Milwaukee through a fusion process, which would produce a synthetic gas (syngas) that would be used for electricity. He said there are six individuals meeting with County Executive Tom Hinz and him to discuss the possibility of a similar project in Brown County.

When Supervisor Kaster asked how this is different than the project by Oneida Seven Generations, Mr. Larscheid explained that both produce gas but through different processes. Supervisor Kaster questioned the logistics of physically accepting additional garbage. Mr. Larscheid replied that the material could go through the transfer station and then be directed toward the operation; or it could bypass the waste transfer station altogether.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to receive and place on file. MOTION APPROVED UNANIMOUSLY.

10. **Grant Application Review (#10-04) Environmental Cap Renard Island:**
Mr. Larscheid said the Brown County portion would also come from tipping fees received from the Corps of Engineers.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve. MOTION APPROVED UNANIMOUSLY.

11. **Renard Island Closure – Causeway discussion update (referred from January meeting):**

Mr. Larscheid reminded the Committee that this causeway is for bringing material onto the island so it can be covered. He said the Corps of Engineers has indicated verbally the willingness to consider the west causeway as the least costly, because the City of Green Bay would not give the approval for an easement across the property needed for the east causeway.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster that the PD&T Committee recommends that the US Army Corps of Engineers select the Renard Island Causeway Current Working Estimate Construction Alternative that will be of no cost to Brown County. If the City of Green Bay wishes to modify that Construction Alternative for future recreational flexibility on Renard Island, the City needs to participate in the process of

**procuring any needed approvals and financing for the modification.
MOTION APPROVED UNANIMOUSLY.**

12. Environmental Consultant #1387 RFP Scoring – Request for Approval:

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve Foth & VanDyke as the Solid Waste Consultant. MOTION APPROVED UNANIMOUSLY.

13. Director's Report:

Mr. Larscheid reported the following upcoming meetings:

- Oneida Seven Generations first negotiating session
- DNR to determine differences to a temporary causeway design if left in place for Renard Island project
- Alliance Federated Energy Group for the plasma incineration
- Harbor Commission with Terminal Operators concerning Fox River dredging

Mr. Larscheid stated that the recycling rebate to Brown County customers has increased to \$45 per ton in March and that it has not been this high in about a year.

Concerning environmental dredging, Mr. Larscheid said the Corps of Engineers sent a letter to the EPA threatening to halt the Fox River navigational dredging until 2017 because of EPA requirements. There is an impasse between the two agencies; and since the dredging was not done last year, there is a concern that ships will not be able to get through the Port fully loaded without the dredging.

Mr. Larscheid stated that an environmental monitoring quote went out for ground water monitoring, closed landfills, surface water monitoring, etc.; and MSA of Wisconsin Dells won that quote at \$48,420 per year. The subcontractor is Test America. This will begin in March at a savings of almost \$7,000 annually.

Concerning greenhouse gas reporting for the EPA, Mr. Larscheid noted that all landfills or closed landfills have to have standard reporting requirements by April 10, 2010. He added that calibrating the meters at \$700 each per year could amount to thousands of dollars to meet this requirement. In addition, the measurements for methane now have to be converted to a wet weight basis. Also, any gas combustion activities will need to be reported; so an audit will be needed.

Mr. Larscheid said he has been talking with someone who is proposing to take the construction and demolition material in order to reduce landfill. This person has already met with Winnebago and Outagamie counties.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to receive and place on file. MOTION APPROVED UNANIMOUSLY.

Highway:

14. Highway Budget to Actual 2009 and 2010:

Brian Lamers, Highway Commissioner, reported that the only number he is aware of that is not reflected in 2009 figures is the final chargeback for I.S. He added that for 2010 there are some indirect charges that he estimated for January.

Motion made by Supervisor Kaster and seconded by Supervisor Fleck to receive and place on file. MOTION APPROVED UNANIMOUSLY.

15. **Resolution Designation the Week of April 19th through April 23rd as "Work Zone Safety Awareness Week" in Brown County in 2010:**

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve. MOTION APPROVED UNANIMOUSLY.

16. **Director's Report:**

Regarding the IRR (Indian Reservation Roads) Program, Mr. Lamers is waiting for a response from Mike Flynn and will follow up periodically.

Mr. Lamers said asphalt bids were opened last week, and the amount came in approximately \$4.50 per ton less than estimated; so there will be changes in the bonding for reconditioning projects. He added the Hwy. EA project (culverts, etc.) will probably use those savings, which means bonding will remain about the same.

Regarding approval in the budget to replace parking lots at DC and Langes Corner, the fencing around Langes Corner, and upgrades to storm water, Mr. Lamers reported that he is also looking at the Langes Corner Shop now which has only two 1,000 gallon holding tanks. He stated that these tanks, installed in 1979, need to be emptied constantly when there are winter storms and the trucks need to be washed. He said he is reviewing the possibility of replacing those tanks, and the estimates so far are under \$10,000. He opined that it would be good to do this while replacing the parking lot.

Mr. Lamers proposed having the Town Meeting on Monday, April 19, 2010, at 6:00 p.m. at the Highway Department. He said he will send information and an agenda.

Regarding invasive species, Mr. Lamers stated that this will have an impact on the Highway Department in the future with mowing operations. As an example, he said equipment will have to be washed off or blown off before transporting; otherwise, fines will be assessed by the DNR. Therefore, it may be necessary to purchase compressors, etc.

Supervisor Fleck noted that he has received good reports concerning the 3-way stop on Webster and Chicago.

Chair Erickson said he had become aware of a bleach product that would not affect metal and could be an economical way to proceed. Mr. Lamers said he plans to work with UW-Extension on this.

Supervisor Kaster asked how close the shop was to the Denmark Treatment Plant. Mr. Lamers said he would check into this.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to receive and place on file. MOTION APPROVED UNANIMOUSLY.

Highway/Planning Commission:

17. Update on CTH GV (standing item):

Mr. Lamers said he has sent the cost-share agreement with Ledgeview to start the roundabout. He added that there is discussion concerning Ledgeview's inquiry as to the estimated cost to leave the road open during construction.

Concerning the Environmental Impact Statement (EIS) Chuck Lamine, Planning Director, stated that six alternatives for the location of the bridge and corridor were presented to the Highway Commission. He added that since that time there was a meeting with the Lead Agencies (Federal Highway Administration, Department of Transportation, Planning Commission) committee; and this was reduced to four alternatives: (1) Scheuring-Heritage Road; (2) Rockland-Red Maple Road; (3) Hwy. 41—one with an interchange and one with an overpass; and (4) South of Rockland-Red Maple Road closer to Hwy. County S. Mr. Lamine said a meeting was scheduled for the Stakeholder Committee; and after that meeting a public information meeting will be scheduled. Mr. Lamine said there should be an update on this in April.

Motion made by Supervisor Kaster and seconded by Supervisor Fleck to receive and place on file. MOTION APPROVED UNANIMOUSLY.

Planning and Land Services:

18. Planning Update on Eastside Property Development:

Mr. Lamine said there has been no activity on the vacant County Farm property.

Chair Erickson stated that since the proposed Veterans Hospital is being built close to the boundary of that property, he is hopeful that there would be some possibility of development in conjunction with that facility.

Mr. Lamine said the main focus has been on the former mental health facility. He said, as development continues, the interest in the vacant property could increase; and when the market improves, the property could become more valuable. He added that he would discourage selling the property just to get rid of it, because of the current status of the market.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to receive and place on file. MOTION APPROVED UNANIMOUSLY.

Land Information:

19. Grant Application Review (#10-02): USGS Non-Competitive Assistance FY 2010 – Eastern Region for Aerial Photography Project:

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve. MOTION APPROVED UNANIMOUSLY.

20. **Budget Adjustment Request (#10-17): Increase in expenses with offsetting increase in revenue: LiDAR Imagery and Elevation Mapping Grant.**

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve. MOTION APPROVED UNANIMOUSLY.

21. **Budget Adjustment Request (#10-18): Increase in expenses with offsetting increase in revenue: U.S. Geological Society Non-Competitive Assistance FY 2010 – Eastern Region for Aerial Photograph Project:**

Motion made by Supervisor Kaster and seconded by Supervisor Fleck to approve. MOTION APPROVED UNANIMOUSLY.

Planning Commission:

22. **Budget Adjustment Request (#10-04) for Wisconsin DNR Water Quality Management Grant for Wetland Identification Pilot Project using Color Infrared Imagery:**

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to approve. MOTION APPROVED UNANIMOUSLY.

23. **Budget Adjustment Request (#10-05) for Environment Impact Statement (EIS) for Transportation Improvements in the Southern Portion of the Green Bay Metropolitan Area:**

Motion made by Supervisor Kaster and seconded by Supervisor Fleck to approve. MOTION APPROVED UNANIMOUSLY.

24. **Resolution re: Authorizing an Application for a Wisconsin Community Development Block Grant for Economic Development from the Wisconsin Department of Commerce:**

Mr. Lamine asked to recognize the County Board Office (Alicia Loehlein) and Corporation Counsel for giving him the additional time needed to add this to the Agenda. He said this saved about 1½ months in processing time through the various meetings. This means that hiring could possibly begin in a couple of months.

Motion made by Supervisor Kaster and seconded by Supervisor Fleck to approve. MOTION APPROVED UNANIMOUSLY.

Property Listing – No items.

Zoning:

25. **Discussion and action regarding implementation of the POWTS maintenance program (referred to staff at 12/28/09 meeting to report back in 60 days):**

Bill Bosiacki, Zoning Administrator, reported that the USDA (United States Department of Agriculture) will look at potential applications outside the urban

area for POWTS (Private Onsite Wastewater Treatment Systems). He said the Brown County Housing Authority was also contacted and has agreed to look into this. He stated that those are the only two organizations other than the Wisconsin Fund that he has identified.

Mr. Bosiacki reviewed the attachments. (Maps filed in the County Clerk's office.) He stated that he would like to do some additional research on the in-grounds in order to better identify potential replacements.

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to send notices for mounds and holding tanks to get the inspection done in the Year 2010. MOTION APPROVED UNANIMOUSLY.

Register of Deeds – No agenda items.

Other:

26. **Audit of Bills:**

Motion made by Supervisor Fleck and seconded by Supervisor Erickson to pay the bills. MOTION APPROVED UNANIMOUSLY.

27. **Such Other Matters as Authorized by Law:**
None

Motion made by Supervisor Fleck and seconded by Supervisor Kaster to adjourn at 8:41 p.m. MOTION APPROVED UNANIMOUSLY

Respectfully submitted,

Lisa M. Alexander
Recording Secretary

Continental Airlines Announces Service From Cleveland to Green Bay and Norfolk

CLEVELAND, Jan 27, 2010 /PRNewswire via COMTEX/ -- Continental Airlines (NYSE: CAL) today announced that it will operate daily nonstop service between its Cleveland hub at Hopkins International Airport to Green Bay, Wis., and Norfolk, Va., beginning May 2, 2010.

"Continental is pleased to reestablish the links between our hub in Cleveland and the cities of Green Bay and Norfolk," said Jim Ferea, Continental's managing director of scheduling. "The flights will offer more destinations for Cleveland travelers, as well as provide Green Bay and Norfolk travelers access to Cleveland and points beyond via connecting flights to other cities in Continental's route network." The Continental Express service will use Embraer regional jet aircraft with 50 seats.

The flight schedules are as follows:

Cleveland - Green Bay			Green Bay - Cleveland		
Departs	Arrives	Frequency	Departs	Arrives	Frequency
3:05 p.m.	3:30 p.m.	Daily except Sat	8:00 a.m.	10:20 a.m.	Mon/Thu/Fri
6:10 p.m.	6:35 p.m.	Sat	9:10 a.m.	11:30 a.m.	Sat/Sun
8:45 p.m.	9:10 p.m.	Wed/Thu/Fri/Sun	4:00 p.m.	6:20 p.m.	Daily except Sat
Cleveland - Norfolk			Norfolk - Cleveland		
Departs	Arrives	Frequency	Departs	Arrives	Frequency
12:55 p.m.	2:25 p.m.	Sat	6:30 a.m.	8:05 a.m.	Daily except Sun
3:55 p.m.	5:25 p.m.	Daily except Sat	10:00 a.m.	11:35 a.m.	Sun
6:25 p.m.	7:55 p.m.	Sat	3:00 p.m.	4:35 p.m.	Sat
7:10 p.m.	8:40 p.m.	Daily except Sat	5:55 p.m.	7:30 p.m.	Daily except Sat

Continental operates 169 daily flights to more than 60 nonstop destinations from Cleveland. Continental Airlines is the world's fifth largest airline. Continental, together with Continental Express and Continental Connection, has more than 2,500 daily departures throughout the Americas, Europe and Asia, serving 133 domestic and 135 international destinations. Continental is a member of Star Alliance, which overall offers 19,700 daily flights to 1,077 airports in 175 countries through its 26 member airlines. With more than 41,000 employees, Continental has hubs serving New York, Houston, Cleveland and Guam, and together with its regional partners, carries approximately 63 million passengers per year.

Continental consistently earns awards and critical acclaim for both its operation and its corporate culture. For the sixth consecutive year, FORTUNE magazine named Continental the No. 1 World's Most Admired Airline on its 2009 list of World's Most Admired Companies. For more company information, go to continental.com.

SOURCE Continental Airlines

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NEWS

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Contact
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Frontier Adds New Nonstop Service from Green Bay

Seasonal service to/from Denver begins April 19, 2010

DENVER (Feb. 4, 2010) – Frontier Airlines today announced its summer 2010 schedule with the exciting addition of new seasonal nonstop service between Austin Straubel International Airport (GRB) and Denver International Airport (DEN) beginning April 19, 2010. Frontier will serve the Green Bay market with three flights a week through October 22, 2010. Fares for this new service will be available for sale on FrontierAirlines.com beginning Feb. 14, 2010.

"This is a very exciting day for Frontier Airlines," said Daniel Shurz, Frontier's vice president of planning and strategy. "With the delivery of three new Airbus A320s and additional E190s this spring we are able to expand our service to new and underserved markets out of Denver. Customers in Green Bay can now look forward to Frontier's excellent customer service and affordable fares as they travel to/from Denver and beyond. The convenience of the service is great when combined with the destinations available through our sister carrier Midwest Airlines' three times daily year-round service from Green Bay to Milwaukee"

Frontier's Green Bay service will be flown by the Embraer 190 aircraft. Customers on board this 99-seat aircraft enjoy comfortable leather seating in a two-by-two configuration. In addition, all of the E190 aircraft have several rows of STRETCH seating, which provides an additional five inches of comfortable legroom.

In addition to the new Green Bay service, Frontier also announced the launch of service between Denver and Branson, MO (BKG); Grand Rapids, MI (GRR); Long Beach, CA (LGB); Madison, WI (MSN); Newport News-Williamsburg, VA (PHF) and Santa Barbara, CA (SBA). In addition, Frontier will add a third daily frequency to New York City, NY (LGA) on April 19, 2010, and a fifth daily frequency to Portland, OR (PDX); San Francisco, CA (SFO); and Seattle, WA (SEA) on May 14, 2010, for the peak summer travel period.

Here are the schedules for the new Green Bay service:

Denver – Green Bay* (Effective April 19, 2010)

Departs	Arrives	Frequency	Aircraft
10:40 a.m.	1:51 p.m.	Mon/Wed/Fri	E190

*Seasonal service runs April 19, 2010 – October 22, 2010

Green Bay – Denver* (Effective April 19, 2010)

Departs	Arrives	Frequency	Aircraft
2:30 p.m.	3:59 p.m.	Mon/Wed/Fri	E190

**Seasonal service runs April 19, 2010 – October 22, 2010*

About Frontier Airlines

Frontier Airlines is a wholly-owned subsidiary of Republic Airways Holdings Inc, an airline holding company that owns Chautauqua Airlines, Lynx Aviation, Midwest Airlines, Republic Airlines and Shuttle America. Currently in its 16th year of operations, Frontier is the second-largest carrier at Denver International Airport, employing nearly 6,000 aviation professionals. Frontier is made up of one of the youngest Airbus fleets in North America offering 24 channels of DIRECTV® service in every seatback along with a comfortable all-coach configuration. Frontier offers routes to 60 destinations in the U.S., Mexico and Costa Rica. In addition, Frontier and Midwest have a codeshare partnership that allows passengers of both airlines access to more than 70 destinations in the U.S., Mexico and Costa Rica.

For more in-depth information on Frontier Airlines and to book tickets, please visit its Web site at FrontierAirlines.com.

January-10

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UW-Extension

2009 Highlights

Brown County UW-Extension

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You will find Brown County UW-Extension educators out in the county holding seminars to help dairy producers improve their profitability, teaching county residents how to garden, working with the green industry to identify and treat pests and diseases, presenting information to families about healthy eating and helping youth build robots that enable them to learn and utilize math, science and computer programming skills.

UW-Extension is an unique organization serving Brown County residents with research, skills and knowledge from the University of Wisconsin-Madison. We provide what people need to make informed decisions and suggestions for change.

The Brown County UW-Extension Office is a partnership with Brown County government and University of Wisconsin-Extension. Our UW-Extension network consists of county UW-Extension offices, and specialists who are based on the UW-Madison campus. Together, we respond to local needs in Brown County with friendly advice, useful tips, one-on-one consultations and educational presentations.

Many of our educational efforts in 2009 focused on helping individuals and families deal with the downturn in the economy. The Brown County UW-Extension Agricultural Agent spent significant time working with dairy producers dealing with record low milk prices. Grow Wisconsin is a new program sponsored by a number of State of Wisconsin agencies designed to help producers evaluate their dairy operation and identify areas to improve profitability. Three Brown County producers have been accepted into the program and two additional farmers have submitted applications.

Gardening programs were extremely popular with Brown County residents in 2009. In addition to an increased interest in local foods, many people were looking for ways to reduce their grocery bills. A backyard garden can generate a profit of \$500 annually. Community garden plots were at 98 percent capacity in 2009. Square foot gardening was implemented in Brown County and educational efforts will be expanded in 2010 to teach this basic concept to interested participants.

Interest in preserving produce increased significantly in 2009 due to the increase in gardening. Nine

food preservation workshops were offered. The Oneida Tribe of Indians of Wisconsin co-sponsored with the Brown County UW-Extension Office a three day Master Food Preserver class. Twenty-five individuals completed this training.

Seventeen Brown County 4-H clubs completed 55 community service projects in 2009. Community service projects include donations to "Give A Kid A Book" Campaign, assisting with community event, making donations to those less fortunate and cleaning up public roads. Youth gain skills by learning to give.

The Wisconsin Nutrition Education Program had 6,968 educational contacts in 2009. Audiences were found at the NEW Community Shelter, Lutheran Social Services. Aging and Disability Resource Center of Brown County, Job Center, Howe Family Resource Center, Healthy Families Program, Boys and Girls Club, and Oneida Tribe of Indians of Wisconsin among others.

Efforts will continue in 2010 to help individual and families deal with the continued downturn in the economy.

Through the University of Wisconsin-Extension, all Wisconsin people can access university resources and engage in lifelong learning, wherever they live and work.

COOPERATIVE EXTENSION PROGRAMS • UNIVERSITY OF WISCONSIN-EXTENSION
University of Wisconsin, United States Department of Agriculture, and Wisconsin Counties cooperating. University of Wisconsin-Extension provides equal opportunities in employment and programming, including Title IX and ADA.

2009 Brown County Scissor Clipping Project

There are over 61,000 acres of forage grown in Brown County for use in dairy rations. Alfalfa is an important component of dairy rations and can be a profitable cash crop. High quality alfalfa can reduce feed costs and increase profitability. The key management strategy in producing high quality alfalfa forage is knowing when to select the optimum harvest date for the first cutting. There is a direct correlation between the development of the plant and the quality and quantity of alfalfa harvested. Alfalfa nutrient quality decreases as the plant matures from the vegetative stage to full flower. At the same time, the pounds of plant material harvested per acre increases as the plant matures. The optimum harvest date is a compromise between the feed quality and the tonnage produced. Producers need to monitor the first cut alfalfa growth in order to determine the optimum harvest date.

To address this issue, Brown County UW-Extension Agriculture Educator, Mark Hagedorn, utilized the alfalfa scissor clipping procedure from randomly chosen fields in Brown County. Samples were collected twice weekly from 4 quadrants of the county. Sampling began at the late vegetative stage and continued to harvest. Alfalfa clippings were taken from the same area of the field, approximately the same time of the day and clipped at 2 inches above soil line and analyzed by the near infrared reflectance spectroscopy (NIR) method. The analysis included moisture and the relative feed value (RFV) which is computed from the acid detergent fiber (ADF) and neutral detergent fiber (NDF).

Good responses were received from all quadrants of the county. The information developed, was made available to 64 producers, agronomists, and nutrition

consultants via electronic transmission and fax. Bi-weekly radio spots were used in order to facilitate the release of timely information to the public. The local media was very enthusiastic in their efforts to publicize and promote the educational benefit of this program.

Forage sub samples were sent in to help with the ongoing Relative Feed Value vs Relative Feed Quality study being done by the University of Wisconsin.

The response to this program was overwhelmingly positive. A program evaluation yielded 34 response (N=34) that desired this program continue. The evaluation further indicated that 33 of the producers indicated that alfalfa haylage quality increased as a result of this program.

Improved nutrient management practices have proven to enhance farm profits and reduce detrimental impacts of nutrients and sediment on waters of the state.

The 2009 Midwest Manure Summit – Bringing Allure to Manure

In 2007, a needs assessment of Brown County dairy producers reflected manure, manure handling technologies, and nutrient management to be critical issues related to herd expansion. The handling and processing of manure is challenging due to its sheer volume. Hauling, odor, nutrient management and the potential of rural/urban issues also is an issue.

In 2009, a conference called the Midwest Manure Summit was planned and implemented to address the aforementioned issues. Mark Hagedorn, Brown County Agriculture Educator and Paul Dyk, Fond du Lac Dairy and Livestock Agent were co-leaders of this event. The Midwest Manure Summit was designed to bring new and innovative ideas from across the world to address technological difficulties related to manure handling and processing.

The event was advertised across the Midwest and held at Lambeau Stadium. Sponsorships and successful collaborations with government agencies and agribusiness were utilized to defray the costs of bringing in speakers. Nearly 300 people from 11 states and two Canadian provinces attended the day event. Twenty-one speakers covered various topics on manure. Proceedings and podcasts were posted on the website designed for the event. <http://www.midwestmanure.com/>

The initial response to the event was overwhelmingly positive. Connections were made between producers and industry that will foster technological changes for a long period of time. Many economic benefits of concepts discussed at the Midwest Manure Summit have been or will be applied to farms in the near future. The website continues to

be a well utilized resource for information discussed at the conference.

The evaluation of the Midwest Manure Summit has been a two phase process. (Phase 1) Immediate post meeting evaluation - One post meeting evaluation question asked was "if the conference was an effective use of time"? On a scale of 1-5 the conference garnered a 4.2. Rankings of individual speakers rated from 3.4 to 4.4 of a scale of 5. (Phase 2) Six month post meeting evaluation - A Zoomerang evaluation was developed and sent out to all conference participants. Responses totaling 53 were received with all respondents advocating a second bi-annual Midwest Manure Summit being held. A second Summit will be held in March 2011.

Garlic mustard is an invasive plant that has been rapidly spreading throughout Wisconsin, infesting a range of areas including urban forests, parks, and natural areas. This non-native plant has been documented to transform the ecosystem which it invades by reducing mycorrhizal associations with a range of native plants. This can result in reductions in plant establishment (especially hardwood trees) and cause large-scale shifts in species.

While several management methods exist for garlic mustard that are effective at reducing populations, few land managers, park employees, and others who manage garlic mustard in urban areas are aware of how to use these methods successfully and efficiently as a part of their management program.

UW-Extension Eastern District Innovative Grant dollars were obtained to conduct a research study in Brown and Door Counties with the objective to evaluate the effectiveness of seven management methods for garlic mustard control at four different timings in 2008-2009. In addition to the level of control, the cost of each method and the resulting impact on other resident vegetation was evaluated in this research study.

A research paper was published in the Invasive Plant Species Association's newsletter to educate woodland owners, urban foresters, DNR, homeowners, and Master Gardeners in Northeast Wisconsin on where garlic



Garlic mustard - first year rosette stage

mustard is rapidly destroying the natural ecosystem in the woodlands, making them inhospitable for wildlife, displacing native plants and causing a decline in forest health. A poster presentation on the outcome of the research study was offered at the national and state conferences.

A field day based on the research study was organized in 2009 to educate woodland owners, urban foresters and the general public. Twenty-eight people participated in the field day and 95% of the

participants expressed their overall satisfaction in attending the field day and 88% felt that the field day was highly beneficial to them. Out of 26 people who responded to the survey, 24 indicated that they are planning to try one of the treatment methods as a result of the field day. Field day evaluations indicated that more than 50% of the participants' knowledge was increased to a high level after attending the field day. Several participants of the field day mentioned in the evaluation that they are planning to adapt late fall and early spring treatments with Roundup or a spring treatment with Alley herbicide. Participants also shared their comments about the field day and the research study in the evaluation as follows:

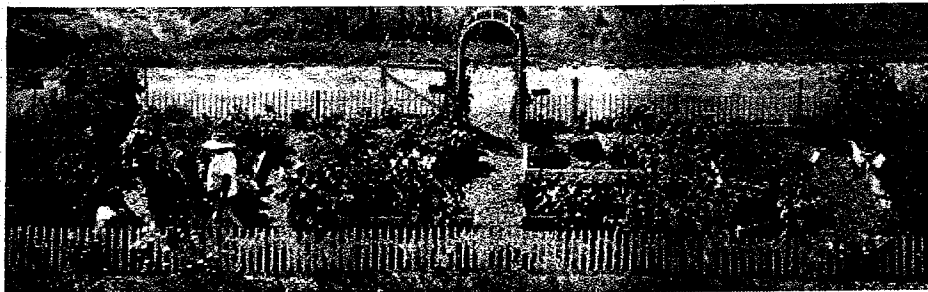
"I didn't have a good knowledge of garlic mustard. I now feel that I can identify and treat outbreaks in my land." "I would love to see more studies of this kind, both longer term (multi-year) and for other species of herbaceous & woody invasive."



Dr. Mark Renz, UW Extension Weed Science Specialist leading our Garlic Mustard Field day in Door County Peninsula State Park in educating the public on the effect of different treatments against garlic mustard.

*Connecting people
to University
knowledge they
can use..*

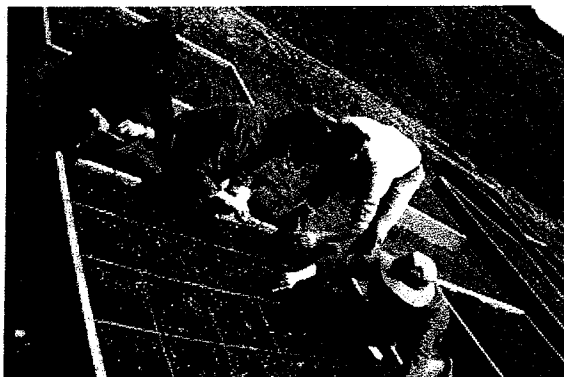
Square Foot Garden Demonstration Project



One of hottest trends of this year's home landscape projects was vegetable gardening. Vegetable gardening helped many homeowners save considerable dollars in their food budget during the current recession. With the help of N.E.W. Master Gardener Volunteers and interns, Brown County UW-Extension took a lead this year in promoting the importance of vegetable gardening by

demonstrating square foot gardening at the Green Bay Botanical Garden. A square foot garden is a simple and versatile system of vegetable gardening that conserves space, is easy to manage, is portable in nature and doesn't require any roto-tilling. This style of gardening is well suited for people living in urban settings who don't have sufficient space for a conventional garden.

A total of 47 vegetable varieties including tomatoes, peppers, eggplants, onions, spinach, dry beans and edible soybeans were grown in this garden. Handouts on the nutritious value of different vegetables and on how to start a square foot garden were distributed at numerous events at the garden. A display of all the vegetable varieties and a tasting event were hosted this fall by the N.E.W. Master Gardener Volunteers and interns at the Botanical Garden. In 2010, the N.E.W. Master Gardener Volunteers are looking forward to integrating a wheelchair accessible feature in the demonstration garden and promoting square foot garden in other communities.



Planting of onion sets and spinach seeds by the Master Gardener Volunteers and interns at the Square Foot Demonstration Project



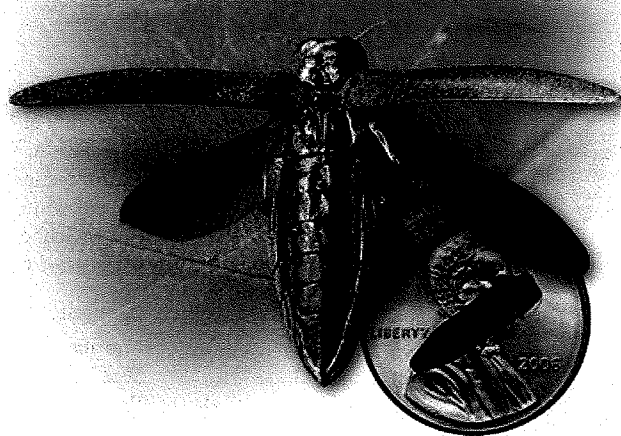
*Practical
educational
programs tailored
to local needs and
based on university
knowledge and
research.*

Addressing Emerald Ash Borer in Brown County

On July 28, 2009, the Wisconsin Department of Agriculture discovered an adult emerald ash borer (EAB) in one of their purple traps in Green Bay. The recent discovery of EAB in Brown County created a grave concern to urban foresters, landscape

contractors and the public. So far, EAB has killed more than 50 million ash trees in the Midwest and has spread to 12 states and couple of Canadian provinces, resulting in economic and environmental impacts

Brown County marks the fifth county in Wisconsin to find this beetle and it is estimated that nearly 25 percent of our urban forest that is comprised of ash trees could be affected. Following the discovery of EAB in Brown County, the Wisconsin



Department of Agriculture quarantined the movement and/or distribution of all hardwood firewood, ash logs, ash lumber, wood waste and ash nursery stock to areas outside of Brown County. This chain of events led to an unanticipated increase in the need for reliable information by the commercial landscapers and urban foresters about EAB and treatment options.

Fifty-eight landscapers and other horticulture professionals learned

about EAB identification, biology and management through the short course program organized by Vijai Pandian, Brown County UW-Extension Educator. Thirty-two landscapers obtained information from the Horticulture Educator on EAB

status, NR 40 invasive species regulations and alternative trees to plant other than ashes.

With the help of the Horticulture Educator, 15 urban foresters formed a work group to manage EAB in Brown County. A draft of a management plan was prepared by the work group to address EAB in Brown County. The urban foresters also received information on EAB treatment options and information on other trees to plant.

UW-Extension....

*Making a
difference in
Brown County*

Community Gardens Help Brown Co Residents Stretch Food Dollars

The economic downturn of 2008-2009 created difficult financial situations for many Brown County residents. Community garden programs with their related educational opportunities allow people to stretch their food dollars.

The Brown County UW-Extension Community Garden Program consists of 130 rental plots at seven locations throughout the county. During 2009, the gardens were at 98% capacity. Due to a sewer construction project, the garden that was located at Broadway and 7th for a number of years had to be

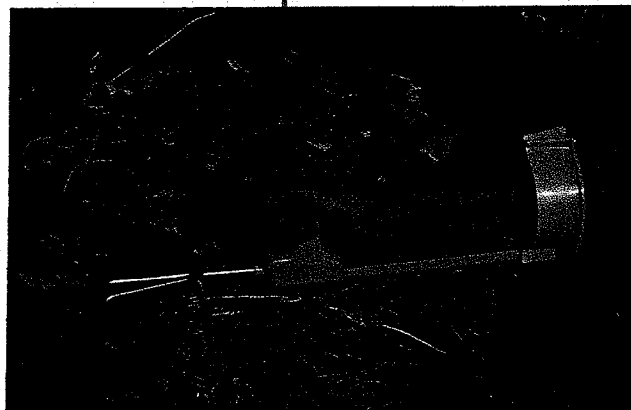
relocated. Working with the City of Green Bay, we were able to relocate the garden to a nearby city park and increase the size from 16 plots to 24 plots. During 2009, over 127 families grew their own vegetables in community gardens. (We cannot be certain of the exact number since some plots are shared.

Classes also help residents to stretch their limited financial resources. The seed starting class gave participants the knowledge to grow their own transplants from seeds instead of purchasing more expensive transplants from local nurseries. The first seed starting

class was filled to capacity (40 participants). The second class was attended by 61 people.

The Brown County UW-Extension also served as a "consultant" for groups who started new community gardens at St. Bernard Parish in Green Bay and a garden in Kewaunee County. Staff also consulted with students from UW-Green Bay regarding the establishment of an orchard. Discussions continue with the City of Green Bay and the Village of Howard regarding additional garden sites in 2010.

Gardening With Arthritis



Arthritis is a leading cause of disability in the US. 27% of Wisconsin's adult population (1.1 million people), have reported doctor-diagnosed arthritis. Physical activities such as gardening benefit persons with arthritis by maintaining joint flexibility, bone density, range of motion, and quality of life. However, pain caused by arthritis will often force individuals to reduce participation in or avoid activities they enjoy.

During 2007, Brown County UW-Extension Community Gardens Coordinator Bill Wright and the Wisconsin Arthritis Program (WAP) partnered to educate gardeners about available tools and techniques which would decrease joint stress, thus reducing pain and allowing them to continue gardening. Funding for the initial venture was provided by both the WAP and UW-Extension Horticulture Team funds received through a USDA CSREES grant. This presentation was later used to create video using Microsoft software and was distributed to a number of organizations. While the Microsoft software allowed us to create a video for minimal cost, it was recognized that there were many limitations, especially in the area of sound quality. This led to discussions with the UW-Extension Distance Education/

Digital Media Unit to determine if they could assist in creating a higher quality product. Jim Leser viewed the initial video and was eager to assist in expanding our efforts.

An expanded script was developed and videotaping took place at Brown County UW-Extension in July of 2008. The moderator for the video was Bill Wright and the supporting cast of demonstrators consisted of NEW Master Gardener Volunteers as well as local residents. Interviews with Anne Kissack, Coordinator for WAP as well as Amy Meinen from the Wisconsin Department of Human Services were later videotaped in the Madison studio. The WAP purchased 1000 DVDs from the Digital Media Unit for distribution. This represented the largest single run of any video produced by this unit.

The DVD was distributed through a variety of channels. One hundred copies were shared with the UW-Stout Vocational Rehabilitation Institute to be included in the Assistive Technology Kit being distributed to Aging and Disability Resource Centers (40) across the state as well as to Independent Living Centers (10) and their satellites (3). Copies were distributed to public libraries across Wisconsin (314) and the Head of the Lakes Arthritis Symposium (14). DVD's were also distributed to attendees of the 2009 Wisconsin Arthritis Leadership Summit (85), 2009 UW-Extension Horticulture Therapy Conference (61) and to UW-Extension offices/Master Gardeners for local programming (17).

Copies were distributed to a wide variety of organizations to be used in programming efforts. These included the Wisconsin Physical Therapy Association, Oneida

Nation Elderly Services, AgrAbility of Wisconsin, Arthritis Foundation, Wisconsin Chiropractic Association, Core El Centro, Lupus Foundation, UWM-School of Nursing, and many more (67 total).

Feedback indicated a need for information on stretching. Bill Wright will be working with Arti Berry, an occupational therapist, and Anne Kissack, to develop a handout of stretches for gardeners.

The extensive distribution of the Gardening and Arthritis DVD made information available to a wide audience, but also made evaluation difficult. When those surveyed were asked if they have stopped or limited gardening activity as a result of joint pain or arthritis, 11 said yes and 36 said no. When asked if they felt that the tips or techniques described in the video would allow them to increase the amount of time spent in the garden, 44 (93.6%) indicated yes and 3 indicated no. The representative sample was small but is a strong indicator that the DVD will meet its objective of allowing people to continue gardening activities.



*Tips and
techniques for life
long gardening
enjoyment.*

GROW Project Connects Children With Vegetables

Childhood obesity and its health consequences are increasing in Wisconsin's youth. Nutrition research supports the role of increased fruit and vegetable consumption for prevention of cancer, heart disease, and obesity. (US Department of Health and Human Services, *Healthy People 2010: Conference Edition Vol I*, 2000). Thus, gardens in schools could emerge as an important tool for nutrition and wellness.

The Gardens Reaching Our World (GROW) project, funded through a Love Your Veggies grant from Hidden Valley, was a collaboration between Brown County UW-Extension's Community Garden Program and Green Bay Area Public Schools Food Service Department.

Assistance was also provided by students enrolled in the University of Wisconsin Green Bay Dietetics degree program. The setting for the project was Elmore Elementary School, where 50.55% of the 234 K-5 students are eligible for the free and reduced lunch program. A salad bar was installed thus allowing access by all students who purchased school lunch on any particular day. The salad bar was positioned so that all students passed the salad bar while they were in line for the rest of their lunch (hot entrée, milk, etc.). The vegetables offered varied from day to day but lettuce was always available. Students were free to select whatever they chose (or nothing) from the salad bar.

In order to develop a baseline prior to the implementation of

the intervention, Food Service staff recorded the total weights of each vegetable placed on the salad bar as well as the amount remaining at the end of the lunch period. The total weight of all vegetables selected that day was divided by the number of students who purchased lunch. This factor, average grams per student, was charted over the course of the project.

A gardening intervention was introduced on January 12, 2009 approximately 10 weeks (45 actual school days) after the implementation of the salad bar. Due to the limited length of the growing season in Brown County, the gardening portion of this project was conducted by using a microfarm, a portable growing station that contains a light source to stimulate plant growth, and flats containing soilless planting medium. Students grew microgreens, the tender young shoots of vegetable plants. Planting connected the children's previous experiences with the school salad bar to the concept of growing their own salads. The gardening intervention concluded on May 8th, a total of 73 school days.

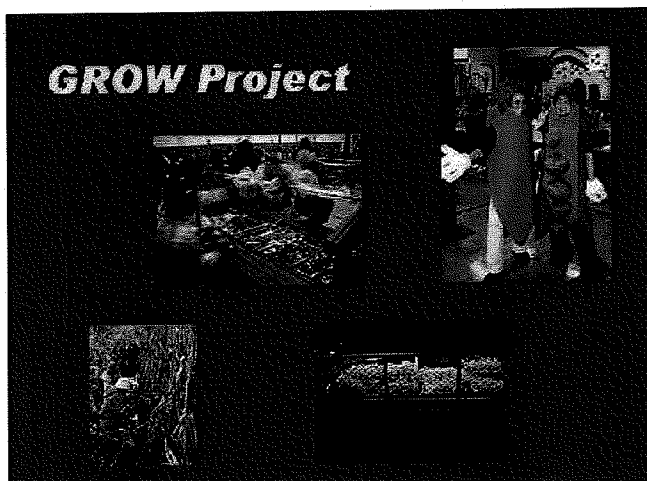
A total of 137 days of salad bar data was collected by Food Service staff. The average amount of vegetables selected throughout the study was found to be 18.30 grams/student. The average amount selected during pre-intervention was calculated at 21.65 grams/student and the daily average during the intervention period was 16.67 grams/student. The average amount selected during post-intervention was found to be 16.85 grams/student.

Volunteers collected salad bar participation data a total of eleven times during the study. The average daily participation throughout the study was found to be 40.05%. The average participation during the intervention period was 46.9% with only two data collection dates. Data was collected only once during post-intervention and showed participation of 39.8%.

The daily weights which were recorded were charted to evaluate the effectiveness of the intervention. The rate of change in daily salad bar consumption was also calculated. For the period before intervention, a rate of change of -0.4030 was found. This negative trend was influenced by the high daily values early in the

study and lowest values found right before intervention. During gardening intervention, a reverse of this trend occurred, with a rate of change of +0.3940. After intervention was completed, daily consumption rates continued to increase, with a daily rate of change of +0.2037.

Involving children in the gardening process increases their consumption of fresh fruits and vegetables.



Brown County 4-H Volunteer Leaders



4-H prepares
youth for the fu-
ture by helping
them develop life
skills

A strong county based 4-H program needs volunteers who not only understand the mission and goals of the 4-H program, but who have the knowledge and skills to provide a wide variety of experiential learning opportunities for members. Additionally, volunteers who are on the 4-H Leaders Association serve on 4-H county wide or club committees, or who are club, project, activity, or resource leaders, need to know what the responsibilities of their role are and what resources are available.

The Brown County 4-H Program has potential for growth, even though there has been a significant decline in the overall program during the past decade.

There is little evidence to support that local leaders have been provided the training and workshop opportunities, resources, and other tools required for them to learn and develop the skills they need to be effective in their leadership role. As a result, Brown County volunteers are unsure about the organizational structure and policies related to 4-H.

During the autumn of 2008, the Brown County 4-H Leaders Association developed the following goals for 2009.

- To set and achieve at least two goals that will improve the Brown County 4-H Program and help the Leaders Association function more effectively.
- To form committees that have broader representation from throughout the county, have a clear understanding of their purpose, and are committed to completing their task.
- To encourage youth leadership by actively involving them in our association, listening to their input, acting on their recommendations, and providing them with additional opportunities for leadership development.

- To plan and carry out one county-wide 4-H community service project.
- To offer three county-wide educational workshops for members and leaders this year.

To strengthen the 4-H Youth Development Program in Brown County, Judy Wolniakowski, UW-Extension 4-H Youth Development Educator, organized a number of efforts which include but are not limited to the following.

- Co-led the *Mandatory Trip Meeting* for youth who were selected to attend state and national leadership events in 2009. The purpose of the meeting was to help these youth and their parents/guardians better understand that policies related to funding from the Brown County 4-H Leaders Association, behavior expectations, and fundraising requirements and opportunities.
- Designed, developed and maintained all of the pages for the new Brown County 4-H web site which went online in January 2009. The intent of the new site is to provide 4-H families with relevant and current information, provide accessibility to forms and documents, and to serve as a means for 4-H families to learn more about 4-H.
- Compiled a binder of resource materials for the new *Brown County 4-H Leaders Association Bylaws and Policy Committee*. Binders were distributed to leaders.
- Developed the *4-H Member Enrollment Form Information and Guidelines*, *4-H Leader Enrollment Form Information and Guidelines*, and the *Enrollment Packet Checklist*. These documents were developed to serve as a guide for completing enrollment forms.
- Developed the *Resource, Forms and Documents for Brown County 4-H Families* publication that was distributed to all 4-H families with their enrollment documents. The purpose of this document was to provide a comprehensive list of frequently requested and important online 4-H resources for 4-H families.
- Planned and conducted a *Real Colors Workshop* for adult and youth volunteers. This training was requested by the Brown County 4-H Leaders Association and was designed to help volunteers understand differences in people and how that information can be used to work with others more effectively in the 4-H program, at home, work, or school.
- Developed a *Brown County 4-H Club Officer Handbook* that included a compilation of documents related to 4-H Club office positions, as well as a sample agenda, information on leadership styles, and several rating forms. The purpose of this handbook was to provide club officers with information needed to help them develop their leadership skills and increase their knowledge about 4-H Club Officer positions.
- Facilitated *4-H Volunteer Orientations* for new leaders. The purpose of the orientation was to meet new leaders and provide them with information about 4-H fundamentals, child protection, and specific information about the Brown County 4-H Program.
- Taught two sessions of *4-H Meetings That Shake Rattle and Roll* for 4-H adult and youth leaders. The purpose of this training was to help 4-H volunteers discover what youth and adult volunteers can do to create a welcoming environment at 4-H meetings, recognize the three parts of a meeting and learn ways to incorporate those parts into a club meeting, and learn how a self-assessment tool can enhance their 4-H club.

Brown County 4-H SET Program

The Brown County 4-H program is reaching underserved youth in Green Bay and neighboring communities through the new 4-H SET Club. SET is the acronym for science, engineering, and technology and is the educational focus for this newly formed club. While all 4-H projects provide hands-on experiences and help youth develop life skills, this club emphasizes scientific and critical thinking, while youth learn new skills in technology.

It has been reported that only 18 percent of US high school seniors are proficient in science (NAEP 2005) and a mere 5 percent of current US college graduates earn science, engineering, or technology degrees compared to 66 percent in Japan and 59 percent in China. Couple these statistics with the fact that current scientists and engineers are retiring in record numbers, and it becomes clear that America faces a crisis in its ability to keep up with increasing demand for professionals trained in these

science, engineering, and technology.

In the Brown County 4-H SET Club, youth members are working in pairs to build robots, learn GPS technology, and participate in a GIS service learning project that will benefit our community. Currently these youth are building robots using LEGOS Mindstorms NXT robot kits, obtained through an Eastern District Innovative grant. These kits include a variety of parts including motors, sensors, and a "brick" which is the robot's programmable brain. Using laptop computers obtained through a Brown County 4-H Leaders Association mini-grant, 4-H members are learning skills to program their robots to maneuver in a pre-determined way, respond to specific commands, and gather data through a variety of experiments. Additionally, youth are learning about career

opportunities in SET and how robotic technology is currently being used. Science Research

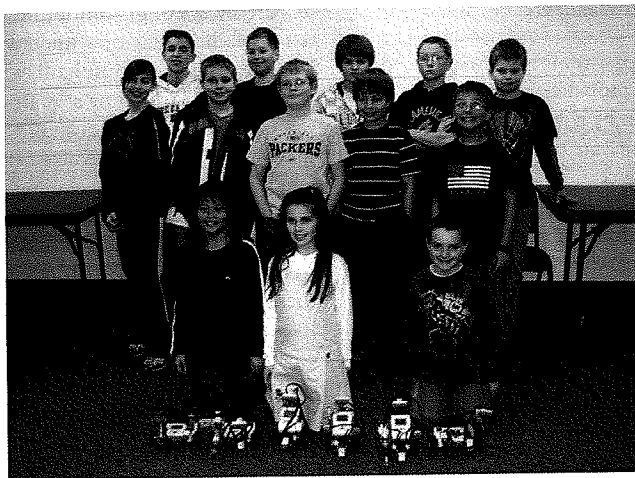
Green Bay area. Leadership for this club is being provided by the newly formed SET Team that includes experienced 4-H adult and youth leaders, local technical professionals, newly recruited leaders, and the 4-H Youth



Development Educator. The objectives of the 4-H SET Team are to provide both educational experiences for youth in science, engineering, and technology and to help this new club and project area be sustainable in the future.

An Environmental Institute (ESRI) grant proposal has also been submitted to obtain resources and software to support GPS/GIS activities that will begin in early 2010.

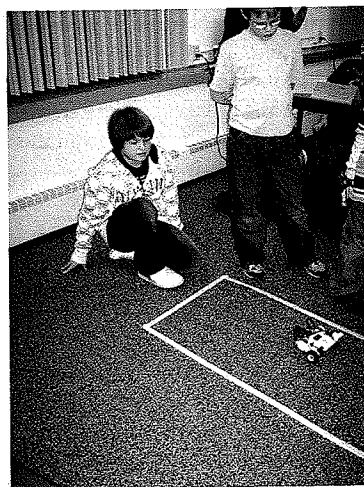
Mechanical Science projects help youth understand how technology can be applied to everyday living.



fields. With its direct connection to the research and resources of the 106 land-grant universities and colleges of the Cooperative Extension System, 4-H is committed to playing a strategic role in helping youth develop an interest, increase their knowledge, explore careers, and learn skills in

opportunities in SET and how robotic technology is currently being used. Science Research

Of the thirteen youth who are currently enrolled in the project, ten of them have not previously participated in 4-H and all of the members are from the metro



Building Community Partnerships and Infrastructure to Increase Fruits and Vegetable Access

Brown County UW-Extension's Wisconsin Nutrition Education Program (WNEP) Coordinator, Karen Early, recognized a need in Green Bay to provide greater access to healthy foods in low income neighborhoods. Two previous food security surveys, facilitated by WNEP at five year intervals, have both confirmed that access to a grocery store would provide greater food security for low-income individuals.

UW-Extension has played a lead role in several new initiatives that will impact access to fresh, affordable foods in Green Bay's low-income neighborhoods as well as provide other benefits to improve food security.

The Brown County Food Security Initiative, initiated by WNEP in 1999 with leadership provided by the coordinator, has continued to build cross disciplinary, multi-sector partnerships that bridge the issues of obesity, community development and food security with common solutions. Please read about three ongoing initiatives driving the efforts to build the food security infrastructure for low income residents in Brown County.

The Brown County WNEP Coordinator, Karen Early, facilitates the Healthy Weight Coalition. Most recently, in collaboration with the United Way Basic Needs grant writer, \$12,500.00 was received from the Wisconsin Division of Public Health to test the Improving Access to Fruit & Vegetable Resource Tool Kit for future use in Wisconsin communities. The grant will allow auditors to visit grocery and convenience stores in low-income neighborhoods and assess the availability of quality fresh fruits and vegetables at the various outlets. A fruit and vegetable perception survey is also being administered with adults in

the target low income area. Under the supervision of the WNEP coordinator, the results will be summarized, publicized and utilized by the coalition to develop an implementation plan to increase access to fruits and vegetables and carry out one intervention.

Another study initiated by the WNEP coordinator is the administration of the third USDA Household Food Security Survey to food pantry clientele. An advisory committee, convened by the coordinator, determined additional topics that will provide useful data for local agencies and grant writing. Additional questions were crafted and added to the module to provide information about issues related to food security as well as determine access to and affordability of fresh fruits and vegetables by low income individuals and families. In conjunction with the UW-Green Bay Social Work Program, over 800 people were interviewed in November 2009.

The past results of these surveys have provided a roadmap for action by government agencies and private organization partners in the community to further the goals of the Brown County Food Security Initiative. UW Cooperative - Extension, with skillful guidance from WNEP, has provided leadership in coordinating these activities, disseminating survey information and, focusing local media attention on the issues. A food asset mapping project and a market basket study were part of this, now being utilized for a third multi-sector initiative, the "Downtown Food Project."

Over the past year, another project was conceived in partnership with Downtown Green Bay Inc., Wisconsin Public Service and the WNEP

Coordinator in Brown County to plan and facilitate the development of a "Downtown Food Project". The partnership wrote and received a Community Based Economic Development state grant to study the feasibility of the proposed project, which includes a retail food cooperative, educational facility, commercial kitchen and brokerage for local foods. Together these components would increase purchases from local growers and producers, and provide space for UW-Extension food-related education and provide a shared kitchen facility for local food entrepreneurs to develop and produce their products.

This is a major economic development project with investment and job creation as major outcomes to support the goal of increasing healthy food access in the demographically low income downtown area of Green Bay, and contributing to the state goal of increasing the food commerce exchange of local foods to 10% by 2020. In addition to the feasibility study now underway by contract with a consultant, a "World Café" visioning session was conducted for the group to promote community involvement and was involved in developing and administering a community survey for the project feasibility study. Together the results of these tools will provide information to guide the interests of the now expanded partnership on the next steps toward developing the downtown food project.

These three initiatives focus on an environmental approach for improving access to health, safe, and affordable food for all resident of Brown County. These efforts are made possible only through the relationships developed to build partnership with a common interest.

*Education
strengthens Brown
County Families*

Growing With Plants

According to the Center for Disease Control (CDC) *State Indicators Report on Fruits and Vegetables* "Fruits and vegetables are important for optimal child growth, weight management, and chronic disease prevention." Obesity research supports the need for school age students to develop the habit of consuming more fruits and vegetables to promote a healthy weight.

Brown County Wisconsin Nutrition Education Program applied for an UW-Extension Eastern District Resource Management grant to pilot a program aimed at addressing these concerns by increasing fruit and vegetable consumption. This was accomplished by providing nutrition education and the experience of growing and eating sunflower and pea sprouts in 5th grade classrooms.

Through contact with local school principals, seven teachers from two schools expressed interest in having the program in their classrooms. The grant purchased lighted grow carts, growing supplies and seeds for the program. In the winter of 2008-2009 the educator assembled supplies and reviewed the available teaching materials with the coordinator and adapted lessons from various sources for the three session classes. The lessons were delivered in spring of 2009.

Each lesson consisted of a nutrition education component focused on the importance of eating more fruits and vegetables for good health. Growing and tending the sprouts was also part of each lesson. These nutrition lessons were coupled with age-appropriate games and activities, again stressing the importance of eating a variety of fruits and vegetables. The last day of the

program involved a review of the nutrition principles taught, harvesting the sprouts and, preparing a "Rainbow Salad" to allow students to sample a variety of fruits and vegetables. An evaluation was administered to determine the effect of the program on fruit and vegetable consumption.

Students displayed a desire to be involved in the classroom activities. They were eager to participate in the classroom nutrition lessons and to play the related games. They were also engaged in growing and eating the sprouts and almost all were willing to try this new food. Both the students and teachers were very enthusiastic about the program and all the teachers requested the program again in the 2009-2010 school years.

An evaluation was administered by the classroom teacher and the

educator compiled the results and distributed them to the participating teachers. One hundred sixty students answered the questions and the results showed that 55% of students had eaten more fruits and vegetables offered at school breakfast and lunch. As a result of the program, 72% of students reported that they had eaten more fruits and vegetables at home. 69% said that they had tried a new fruit or vegetable and, 74% said they liked eating the sprouts they grew.

The results of this program were encouraging. We look forward to offering this program again in 2009 - 2010 in seventeen classrooms at six different schools. I think it shows that age-appropriate, hands-on nutrition education can be effective in changing student behavior regarding the consumption of fruits and vegetables.

*UW-Extension
helping Brown
County Families
grow, changes and
prosper.*



Following the start of the recession in fall 2008, the Brown County UW-Extension Office saw a significant increase in participants enrolled in gardening classes offered in winter 2009. During this time the recession continued to worsen impacting the economy of Brown County. In order to address this situation, the Brown County UW-Extension Family Living Educator, Judy Knudsen, developed a plan for offering a series of food preservation classes to Brown County residents. With more people gardening, there would be a need to safely preserve food. Food preservation classes had not been taught in the past by Knudsen.

A series of nine food preservation classes were held. The series was sponsored by the Brown County UW-Extension Office and NEW Master Gardeners. The classes

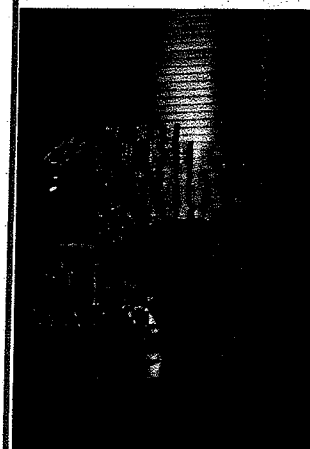
taught include: jams, jellies and preserves; fruit; vegetables; meat (2); tomatoes; pie filling; pickling and drying foods.

Class size was limited to 25 participants except for the pie filling class which had 15 participants as it was a hands-on class. Four of the classes were filled to capacity with a waiting list. Each class highlighted basic food preservation techniques, and appropriate equipment to use. Three food preservation recipes were demonstrated at each class. Participants received the appropriate publication from the UW-Extension Safe Food Preservation Series.

Verbal evaluation was conducted as part of a discussion following each session. About half of participants were "seasoned" canners with the remainder having little experience with food preservation.

A series of food preservation classes will be held again in 2010. To accommodate interest, a list of interested individuals unable to participate in 2009 has been started. A blog has been created by Knudsen focusing on healthy eating and food safety. A number of food preservation practices and recipes from the UW-Extension Safe Food Preservation Series will be featured.

In addition to the food preservation series, the Brown County UW-Extension in cooperation with the Oneida Tribe of Nations Cannery hosted a three day Master Food Preserver training. This series was held at the Oneida Nation's Turtle Elementary School. The series was taught by Barbara Ingham, UW-Extension Food Safety Specialist. Twenty-five individuals participated.



Helping Brown county Families During Difficult Financial Times

While the financial recession has been devastating to many Brown County individuals and families, UW-Extension faculty and staff have been developing educational programs to help people manage during these difficult times.

"Grow Wisconsin" is a program created to increase support for growing Wisconsin's dairy industry. Dairy producers struggled in 2009 with low milk prices. This program is a joint venture of:

- Wisconsin Department of Agriculture, Trade and Consumer Protections
- Wisconsin Department of Commerce
- University of Wisconsin Center for Dairy Profitability
- University of Wisconsin-Extension
- Wisconsin Technical Colleges

The program utilizes a group effort to evaluate local dairy operations and identify areas for

improvement and profitability. Three Brown County Dairy producers have been accepted into the program and two additional producers have submitted applications.

The Wisconsin Nutrition Education Program (WNEP) staff provide nutrition education programs to food stamp eligible individuals and families.

Educators reached 357 different adult learners living at the NEW Community Homeless Shelter. Two different kinds of programs were offered for these adults: monthly cooking classes and a three-part series on food resource management that is offered sixteen times per year. A total of 75 residents participated in cooking classes over the year. The Brown County UW-Extension 4-H Youth Development Program is a less expensive option than other local youth programs. Youth can belong to a 4-H Club for approximately \$11 per year. Over 600 youth participated in the Brown County 4-H Youth

Development Program in 2009.

Seventeen clubs participated in over 55 community service projects in 2009. Donations were made to low-income families, senior citizens, disabled individuals, veterans, military families and organizations addressing real needs.

Gardening was a popular topic in 2009 partially due to the downturn in the economy. Ninety-eight percent of plots available through the Brown County UW-Extension Community Gardens were occupied. A total of 101 people participated in seed starting classes.

A square foot garden was started at the Green Bay Botanical Gardens. This type of garden uses 80 percent less space than a conventional garden. This concept was found to be successful and will be promoted in 2010. Gardening can save money as indicated through research conducted by the National Gardening Association that the average backyard garden generated a profit of \$500 per year.

*Handling food
safely can keep
your family
healthy.*

Brown County
UW - Extension

Budget Status Report

11/30/2009

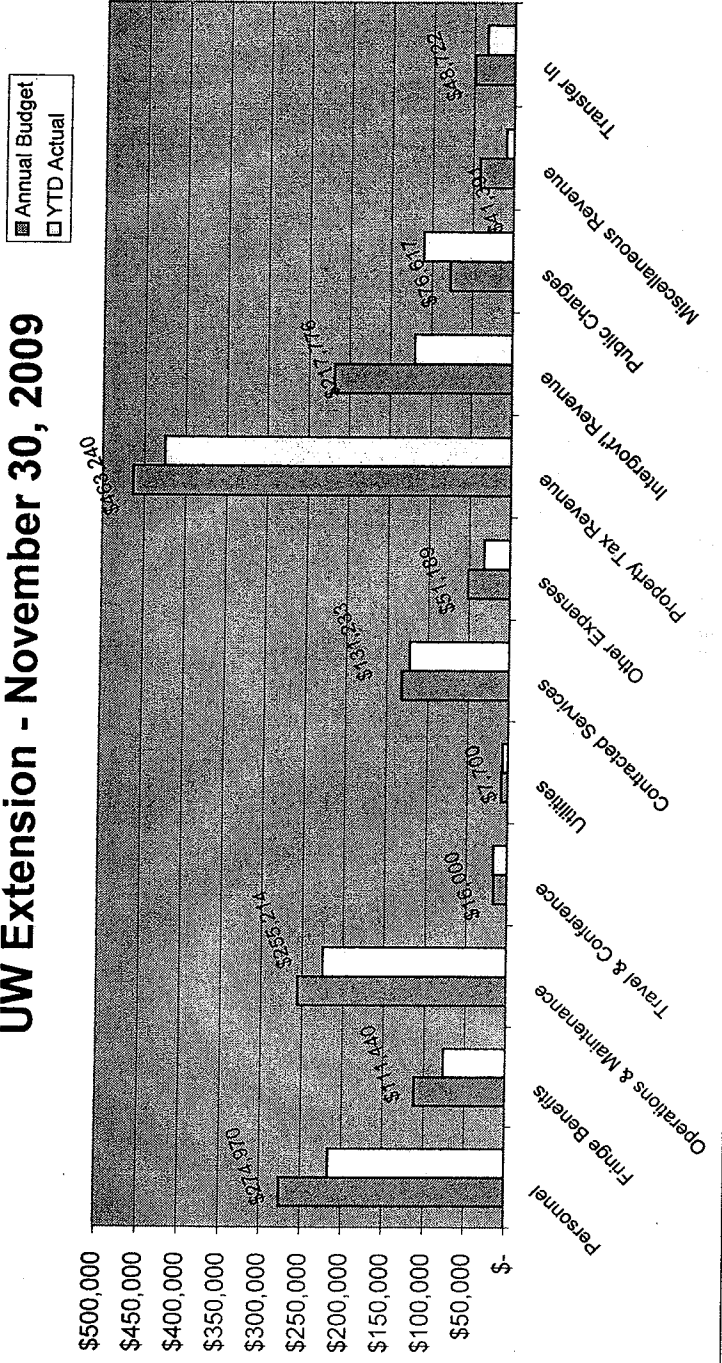
	Annual Budget	YTD Actual
Personnel	\$ 274,970	\$215,722
Fringe Benefits	\$ 111,440	\$75,900
Operations & Maintenance	\$ 255,214	\$224,728
Travel & Conference	\$ 16,000	\$16,723
Utilities	\$ 7,700	\$6,655
Contracted Services	\$ 131,233	\$122,085
Other Expenses	\$ 51,189	\$31,360
Property Tax Revenue	\$ 463,240	\$424,633
Intergov't'l Revenue	\$ 217,776	\$119,573
Public Charges	\$ 76,617	\$109,608
Miscellaneous Revenue	\$ 41,391	\$8,888
Transfer In	\$ 48,722	\$33,248

HIGHLIGHTS:

Expenses:

Revenues:

UW Extension - November 30, 2009



Budget Performance Report_November

Fiscal Year To Date: 11/30/2009

Account Number Expense	Adopted Budget	Budget Amendments	Amended Budget	Current Month Transactions	Encumbrances	YTD Transactions	Budget - YTD Transactions	% Used/ Rec'd	Prior Year Total
Department: 083 UJW Extension									
Division: 001 General									
Account Classification - Personnel services									
5100 Regular earnings	\$271,470.00		\$274,970.00	\$15,559.94		\$0.00	\$202,653.07		
5102 Paid leave earnings	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	74%	\$199,433.07
5102-100 Paid leave earnings - Paid Leave	\$0.00		\$0.00	\$1,392.57		\$0.00	\$12,476.03	+++	\$0.00
5102-200 Paid leave earnings - Personal	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$14,157.63
5102-300 Paid leave earnings - Casual	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5102-400 Paid leave earnings - Sick	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5102-500 Paid leave earnings - Holiday	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5102-600 Paid leave earnings - Other (funeral, jury duty, etc)	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5102-999 Paid leave earnings - Accrual	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5103 Premium	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5103-000 Premium - Overtime	\$0.00		\$0.00	\$0.00		\$0.00	\$592.70	+++	\$445.13
5103-100 Premium - Comp time premium	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5103-200 Premium - Shift differential	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5103-300 Premium - Holiday	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
Personnel services Totals:	\$271,470.00		\$274,970.00	\$16,952.51		\$0.00	\$215,721.80	78%	\$214,035.83
Account Classification - Fringe benefits and taxes									
5110 Fringe benefits	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5110-100 Fringe benefits - FICA	\$0.00		\$0.00	\$1,252.49		\$0.00	\$16,018.44	14%	\$15,633.12
5110-110 Fringe benefits - Unemployment compensation	\$0.00		\$0.00	\$771.60		\$0.00	\$917.02	+++	\$613.69
5110-199 Fringe benefits - Back pay fringe	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00
5110-200 Fringe benefits - Health insurance	\$0.00		\$0.00	\$3,650.22		\$0.00	\$36,009.75	+++	\$41,795.68
5110-210 Fringe benefits - Dental insurance	\$0.00		\$0.00	\$250.74		\$0.00	\$2,674.78	+++	\$2,563.32
5110-220 Fringe benefits - Life insurance	\$0.00		\$0.00	\$31.63		\$0.00	\$320.79	+++	\$174.27
5110-230 Fringe benefits - LT disability insurance	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	+++	\$0.00

2010 Landscaping & Grounds Maintenance Short Course

Nearly 80 individuals employed in the landscaping industry are enrolled in the four week Landscaping & Grounds Maintenance Short Course. The primary goal of this annual program is to provide timely education to help improve the quality of service and profitability of their horticulture business. The educational theme for this year's short course program is oriented towards integrating sustainability practices in the landscape business.

Session topics include:

Week 1, January 27, 2010 – Systematic Diseases and Abiotic Disorders of Trees and Shrubs and Beneficial Insects

Week 2, February 3, 2010 – Integrated Disease Management in a Turf Landscape and Green Pavement, Permeable Pavement

Week 3, February 10, 2010 – 10 Worst Trees to Plant in Wisconsin and Landscape Lighting

Week 4, February 17, 2010 – Organic Lawn Care and Other Options for Improving Soil and Rainwater Harvesting – Turning a Destructive Problem into a Beautiful & Sustainable Solution

Participants come from as far south as Fond du Lac and north into Door County. This is one of few training opportunities available for landscapers. Speakers are UW-Extension Specialists located on the UW-Madison campus as well as individuals from the private sector.

Gardening Year Round

Gardening Year Round was a program presented by Bill Wright, Brown County UW-Extension Community Garden Coordinator on Saturday, February 20, 2010. The session focused on ways of bringing green to gardening during the winter months in Northeast Wisconsin.

The presentation provided information on growing salad greens and herbs indoors during the winter. UW-Extension uses cold frames to extend the growing season and information was presented on using this technique. Participants also learned about the benefits of using a high tunnel. The high tunnel located at the Ag & Extension Service Center has been successfully used to extend the growing season in Northeast Wisconsin.

Over 60 individuals attended this educational session. Attendance at gardening programs offered by the Brown County UW-Extension Office continues to be strong.

Grow Wisconsin

In 2009, Brown County dairy producers as well as producers throughout the country experienced a decline in prices paid for milk. This situation has significantly impacted the financial stability of farm families.

Grow Wisconsin" is a program created to increase support for growing Wisconsin's dairy industry. Dairy producers struggled in 2009 with low milk prices. This program is a joint venture of:

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- Wisconsin Department of Commerce
- University of Wisconsin Center for Dairy Profitability
- University of Wisconsin-Extension
- Wisconsin Technical Colleges

The program utilizes a group effort to evaluate local dairy operations and identify areas for improvement and profitability. Three Brown County Dairy producers have been accepted into the program and two additional producers have submitted applications.

UW-Extension Programming Efforts



Cooperative Extension Programs ♦ University of Wisconsin-Extension

University of Wisconsin,
United States Department
of Agriculture, and
Wisconsin Counties
cooperating.

*University of Wisconsin-
Extension provides equal
opportunities in
employment and
programming, including
Title IX and ADA.*

Brown County 4-H Shooting Sports Program Growing Quickly



Currently 105 youth are enrolled in the 4-H Shooting Sports project. This is an increase of 21 youth from 2009. The focus of all 4-H programs is on the development of youth as individuals and as responsible and productive citizens. The National 4-H Shooting Sports Program stands out as an example. Youth learn marksmanship, the safe and responsible use of firearms, the principles of hunting and archery and much more. The activities of the program and the support of caring adult

volunteer leaders provide young people with opportunities to develop life skills, self-worth, and conservation ethics.

4-Hers are currently learning how to safely shoot air rifles and use archery equipment. In addition there is a wildlife component that each youngster participates in. They learn how to make plaster tracks of various wild animals, listen to guest speakers along with other related projects. A number of parents have commented that shooting sports has been a wonderful opportunity for their children who typically do not do well in activities that involve a lot of sitting and limited action.

A group of adult volunteers provide leadership for this project. Eight leaders are certified instructors and seven additional leaders will become certified this spring. 4-H Shooting Sports Program uses the De Pere Sportsmen's Club two Saturdays per month.



Schedule of Events

- February 24—Grow your Own Fruits & Vegetables, 6—8 pm, Ag & Extension Service Center -\$50 per person.
- March 1—Seed Starting Class—6—7:30 pm, Ag & Extension Service Center—\$5.00 per person.
- March 9—Grain Crops Production Clinic, 9:30 am—3 pm, Rock Garden Supper Club, Green Bay—\$20 per person.
- March 13—Is a High Tunnel Right for Your Farm? - 9—11 am, Ag & Extension Service Center—No fee, but pre-registration is required.
- March 18—Emerald Ash Borer Management Strategies for the Green Industry—10:30 am—3:30 pm—Liberty Hall, Kimberly—No fee, but pre-registration is required.
- March 18—Eastern Wisconsin DHIC Annual Meeting, Whipp's Dining Hall, Green Bay
- March 20—Shooting Sports—DePere Sportsmen's Club.
- March 27—Brown County 4-H Basketball Tournament—Wrightstown High School

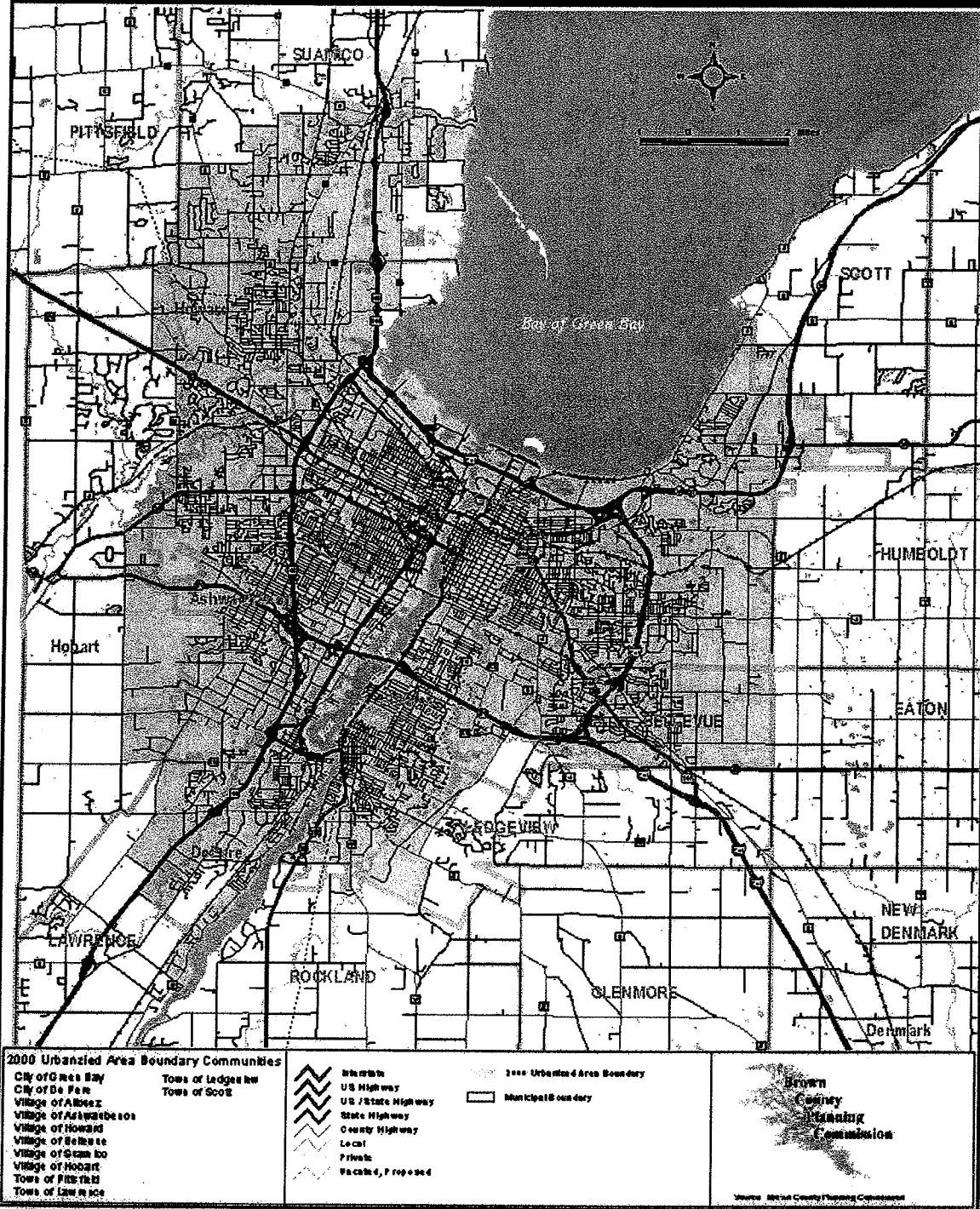
UW-Extension Upcoming Events

**UW
Extension**



**Brown County
UW-Extension**
1150 Bellevue St.
Green Bay, WI 54302
920-391-4610
www.browncountyextension.org

2000 Urbanized Area Boundary



PENDING POWTS PER MUNICIPALITY

Municipalities	In-Ground Gravities Pending		Mounds Pending	Holding Tanks Pending	Total Systems Pending
	No Permit Issued	Permit Issued			
City of De Pere	0	1	1	11	13
City of Green Bay	25	38	2	27	67
Village of Allouez	0	0	0	1	1
Village of Ashwaubenon	0	0	1	0	1
Village of Bellevue	26	33	5	40	78
Village of Denmark	0	1	0	1	2
Village of Hobart	143	387	22	70	479
Village of Howard	90	152	4	46	202
Village of Pulaski	0	0	0	2	2
Village of Suamico	171	631	41	77	749
Village of Wrightstown	9	15	3	3	21
Town of Eaton	75	120	14	71	205
Town of Glenmore	96	124	16	69	209
Town of Green Bay	55	120	10	58	188
Town of Holland	91	121	12	22	155
Town of Humboldt	115	130	18	97	245
Town of Lawrence	52	66	7	79	152
Town of Ledgeview	35	70	18	75	163
Town of Morrison	101	180	5	27	212
Town of New Denmark	123	201	12	40	253
Town of Pittsfield	124	340	13	18	371
Town of Rockland	87	109	16	56	181
Town of Scott	33	59	13	29	101
Town of Wrightstown	92	128	24	69	221
TOTALS	1543	3026	257	988	4271